Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1		esterase\$1	USPAT	AND	OFF	
12	262	aquifex or pyrophilus	US-PGPUB; USPAT	AND	OFF	2005/04/21 15:37
(L)		1 same 2	US-PGPUB; USPAT	AND	OFF	

PGPUB-DOCUMENT-NUMBER: 20030064491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030064491 A1

TITLE:

Genes and proteins involved in the biosynthesis of

enediyne ring structures

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Farnet, Chris M. Outremont CA
Staffa, Alfredo Saint-Laurent CA
Zazopoulos, Emmanuel Montreal CA

APPL-NO: 10/152886

DATE FILED: May 21, 2002

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60291959 20010521 US

non-provisional-of-provisional 60334604 20011203 US

US-CL-CURRENT: 435/183, 435/320.1, 435/325, 435/69.1, 435/76, 536/23.2

ABSTRACT:

Five protein families cooperate to form the warhead structure that characterizes enediyne compounds, both chromoprotein enediynes and non-chromoprotein enediynes. The protein families include a polyketide synthase and thioesterase protein which form a polyketide synthase catalytic complex involved in warhead formation in enediynes. Genes encoding a member of each of the five protein families are found in all enediyne biosynthetic loci. The genes and proteins may be used in genetic engineering applications to design new enediyne compounds and in methods to identify new enediyne biosynthetic loci.

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims benefit under 35 USC .sctn. 119 of provisional applications U.S. Ser. No. 60/291,959 filed on May 21, 2001 and U.S. Ser. No. 60/334,604 filed on Dec. 3, 2001 which are hereby incorporated by reference in their entirety for all purposes.

	KWIC	
--	-------------	--

Detail Description Table CWU - DETL (11):

11TABLE 10 135E locus GenBank homology proposed function of Family #aa Accession, #aa probability identity similarity GenBank match PKSE 1933 T37056, 2082aa 1e-65 282/909 (31.02%) 365/909 (40.15%) multi-domain beta keto-acyl synthase, Streptomyces coelicolor BAB69208 1, 2365aa 3e-84 285/925 (30.81%) 366/925 (39.57%) polyketide synthase, Streptomyces avermitilis T30937, 1053aa 2e-69 246/907 (27.12%) 356/907 (39.25%) glycolipid synthase,

Nostoc punctiforme TEBC 154 NP_249659 1, 146aa 2e-07 41/132 (31.06%) 63/132 (47.73%) hypothetical protein, Pseudomonas aeruginosa AAD49752 1, 148aa 2e-06 40/132 (30.3%) 62/132 (46.97%) orf1, Pseudomonas aeruginosa NP_214031 1, 128aa 5e-04 35/127 (27.56%) 60/127 (47.24%) hypothetical protein, Aquifex aeolicus UNBL 323 NO HOMOLOG UNBV 655 CAC44518 1, 706aa 9e-04 41/135 (30.37%) 59/135 (43.7%) putative secreted esterase, Streptomyces coelicolor UNBU 346 NP_486037 1, 300aa 4e-09 52/191 (27.23%) 87/191 (45.55%) hypothetical protein, Nostoc sp NP_440874 1, 285aa 9e-06 47/197 (23.86%) 89/197 (45.18%) hypothetical protein, Synechocystis sp

FILE 'HOME' ENTERED AT 15:38:59 ON 21 APR 2005

=> fil .bec

COST IN U.S. DOLLARS SINCE FILE TOTAL

FULL ESTIMATED COST ENTRY SESSION 0.21 0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 15:39:12 ON 21 APR 2005 ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s esterase#

FILE 'MEDLINE'

L1 23372 ESTERASE#

FILE 'SCISEARCH'

L2 14330 ESTERASE#

FILE 'LIFESCI'

L3 5931 ESTERASE#

FILE 'BIOTECHDS'

L4 2381 ESTERASE#

FILE 'BIOSIS'

L5 44941 ESTERASE#

FILE 'EMBASE'

L6 15001 ESTERASE#

FILE 'HCAPLUS'

L7 34639 ESTERASE#

FILE 'NTIS'

L8 301 ESTERASE#

FILE 'ESBIOBASE'

L9 4085 ESTERASE#

FILE 'BIOTECHNO'

L10 4672 ESTERASE#

FILE 'WPIDS'

L11 2694 ESTERASE#

TOTAL FOR ALL FILES

L12 152347 ESTERASE#

=> s aquifex or pyrophilus ·

FILE 'MEDLINE'

214 AQUIFEX

34 PYROPHILUS

L13 214 AQUIFEX OR PYROPHILUS

FILE 'SCISEARCH'

283 AQUIFEX

89 PYROPHILUS

L14 283 AQUIFEX OR PYROPHILUS

FILE 'LIFESCI'

143 AQUIFEX

28 PYROPHILUS

L15 143 AQUIFEX OR PYROPHILUS

FILE 'BIOTECHDS'

38 AQUIFEX

8 PYROPHILUS

L16 40 AQUIFEX OR PYROPHILUS

FILE 'BIOSIS'

283 AQUIFEX

54 PYROPHILUS

L17 287 AQUIFEX OR PYROPHILUS

FILE 'EMBASE'

, 206 AQUIFEX

32 PYROPHILUS

L18 206 AQUIFEX OR PYROPHILUS

FILE 'HCAPLUS'

388 AQUIFEX

61 PYROPHILUS

L19 388 AQUIFEX OR PYROPHILUS

FILE 'NTIS'

1 AQUIFEX

1 PYROPHILUS

L20 1 AQUIFEX OR PYROPHILUS

FILE 'ESBIOBASE'

186 AQUIFEX

29 PYROPHILUS

L21 186 AQUIFEX OR PYROPHILUS

FILE 'BIOTECHNO'

141 AQUIFEX

29 PYROPHILUS

L22 141 AQUIFEX OR PYROPHILUS

FILE 'WPIDS'

33 AQUIFEX

8 PYROPHILUS

L23 34 AQUIFEX OR PYROPHILUS

TOTAL FOR ALL FILES

L24 1923 AQUIFEX OR PYROPHILUS

 \Rightarrow s 112 and 124

FILE 'MEDLINE'

L25 1 L1 AND L13

FILE 'SCISEARCH'

L26 0 L2 AND L14

FILE 'LIFESCI'

L27 0 L3 AND L15

FILE 'BIOTECHDS'

L28 2 L4 AND L16

FILE 'BIOSIS'

L29 0 L5 AND L17

FILE 'EMBASE'

L30 0 L6 AND L18

FILE 'HCAPLUS'

L31 4 L7 AND L19

FILE 'NTIS'

L32 0 L8 AND L20

FILE 'ESBIOBASE'

L33 0 L9 AND L21

FILE 'BIOTECHNO'

L34 0 L10 AND L22

FILE 'WPIDS'

L35 1 L11 AND L23

TOTAL FOR ALL FILES

L36 8 L12 AND L24

=> s 124(8a)gene/q

FILE 'MEDLINE'

L37 42 L13(8A)GENE/Q

FILE 'SCISEARCH'

L38 46 L14(8A)GENE/Q

FILE 'LIFESCI'

L39 31 L15(8A)GENE/O

FILE 'BIOTECHDS'

L40 14 L16(8A)GENE/Q

FILE 'BIOSIS'

L41 59 L17(8A)GENE/Q

FILE 'EMBASE'

L42 33 L18(8A)GENE/Q

FILE 'HCAPLUS'

L43 130 L19(8A)GENE/Q

FILE 'NTIS'

L44 0 L20(8A)GENE/Q

FILE 'ESBIOBASE'

L45 35 L21(8A)GENE/Q

FILE 'BIOTECHNO'

L46 31 L22(8A)GENE/Q

FILE 'WPIDS'

L47 8 L23 (8A) GENE/Q

TOTAL FOR ALL FILES

L48 429 L24(8A) GENE/Q

=> s 148 not 2002-2005/py

FILE 'MEDLINE'

1863162 2002-2005/PY

L49 25 L37 NOT 2002-2005/PY

FILE 'SCISEARCH'

3437504 2002-2005/PY

```
26 L38 NOT 2002-2005/PY
```

FILE 'LIFESCI'

L50

306945 2002-2005/PY

L51 21 L39 NOT 2002-2005/PY

FILE 'BIOTECHDS'

79449 2002-2005/PY

L52 6 L40 NOT 2002-2005/PY

FILE 'BIOSIS'

1589919 2002-2005/PY

L53 34 L41 NOT 2002-2005/PY

FILE 'EMBASE'

1578093 2002-2005/PY

L54 20 L42 NOT 2002-2005/PY

FILE 'HCAPLUS'

3534325 2002-2005/PY

L55 63 L43 NOT 2002-2005/PY

FILE 'NTIS'

41472 2002-2005/PY

L56 0 L44 NOT 2002-2005/PY

FILE 'ESBIOBASE'

958564 2002-2005/PY

L57 20 L45 NOT 2002-2005/PY

FILE 'BIOTECHNO'

244553 2002-2005/PY

L58 22 L46 NOT 2002-2005/PY

FILE 'WPIDS'

3316755 2002-2005/PY

L59 1 L47 NOT 2002-2005/PY

TOTAL FOR ALL FILES

L60 238 L48 NOT 2002-2005/PY

=> dup rem 160

PROCESSING COMPLETED FOR L60

L61 72 DUP REM L60 (166 DUPLICATES REMOVED)

=> d tot

L61 ANSWER 1 OF 72 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

TI Aquifex pyrophilus derived thermostable

pyrophosphatase (ApyPpase) and coding **gene** used for genetic engineering and diagnosis of hereditary diseases;

vector plasmid pAPYP-mediated recombinant protein gene transfer and expression in Escherichia coli for use in disease diagnosis

AU HUH H S; KWON S T

AN 2002-14424 BIOTECHDS

PI KR 2001097348 8 Nov 2001

L61 ANSWER 2 OF 72 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

TI Gene encoding heat resistant alanine racemase of Aquifex pyrophilus, useful in medicine and food

industry;

enzyme production, vector expression in bacterium, fermentation and incubation for food industry and medicine

AU YOO Y G

- AN 2002-08972 BIOTECHDS
- PI KR 2001083959 6 Sep 2001
- L61 ANSWER 3 OF 72 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
- TI Thermostable DNA polymerase gene isolated from aquifex pyrophilus and its amino acid sequence;

enzyme gene production and mofidication from bacterium

- AU CHOI J J; KWON S T
- AN 2002-16315 BIOTECHDS
- PI KR 2001113228 28 Dec 2001
- L61 ANSWER 4 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Heat-resistant glutamate racemase and gene coding the same
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
- IN Han, Ye Seon; Kim, Sang Suk; Kim, Seong Ho; Yoo, Yeon Gyu
- AN 2004:877470 HCAPLUS
- DN 142:50203

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	KR 2001036363	Α	20010507	KR 1999-43339	19991008

- L61 ANSWER 5 OF 72 MEDLINE on STN DUPLICATE 3
- TI Cytochromes c555 from the hyperthermophilic bacterium Aquifex aeolicus. 2. Heterologous production of soluble cytochrome c555s and investigation of the role of methionine residues.
- SO Biochemistry, (2001 Nov 13) 40 (45) 13690-8. Journal code: 0370623. ISSN: 0006-2960.
- AU Aubert C; Guerlesquin F; Bianco P; Leroy G; Tron P; Stetter K O; Bruschi M
- AN 2001644001 MEDLINE
- L61 ANSWER 6 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 4
- TI Cytochromes c555 from the hyperthermophilic bacterium Aquifex aeolicus (VF5). 1. Characterization of two highly homologous, soluble and membranous, cytochromes c555.
- SO Biochemistry, (November 13, 2001) Vol. 40, No. 45, pp. 13681-13689. print. CODEN: BICHAW. ISSN: 0006-2960.
- AU Baymann, Frauke; Tron, Pascale; Schoepp-Cothenet, Barbara [Reprint author]; Aubert, Corinne; Bianco, Pierre; Stetter, Karl-Otto; Nitschke, Wolfgang; Schutz, Michael
- AN 2001:567239 BIOSIS
- L61 ANSWER 7 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes linked by fusion events are generally of the same functional category: a systematic analysis of 30 microbial genomes
- SO Proceedings of the National Academy of Sciences of the United States of America (2001), 98(14), 7940-7945 CODEN: PNASA6; ISSN: 0027-8424
- AU Yanai, Itai; Derti, Adnan; DeLisi, Charles
- AN 2001:526462 HCAPLUS
- DN 136:178666
- L61 ANSWER 8 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN Differential effects of replacing Escherichia coli ribosomal protein L27 with its homologue from Aquifex aeolicus.
- SO Journal of Bacteriology, (November, 2001) Vol. 183, No. 22, pp. 6565-6572. print.
 - CODEN: JOBAAY. ISSN: 0021-9193.
- AU Maguire, Bruce A.; Manuilov, Anton V.; Zimmermann, Robert A. [Reprint author]
- AN 2001:540050 BIOSIS
- L61 ANSWER 9 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN

- TI Comprehensive comparison between locations of orthologous genes on archaeal and bacterial genomes
- SO Bioinformatics (2001), 17(9), 791-802 CODEN: BOINFP; ISSN: 1367-4803
- AU Horimoto, Katsuhisa; Fukuchi, Satoshi; Mori, Kentaro
- AN 2001:813196 HCAPLUS
- DN 136:396906
- L61 ANSWER 10 OF 72 MEDLINE on STN DUPLICATE 5
- TI Identification and cloning of partial mbh2 gene cluster of hyperthermophile Aquifex pyrophilus.
- SO Wei sheng wu xue bao = Acta microbiologica Sinica, (2001 Dec) 41 (6) 674-9.
 - Journal code: 21610860R. ISSN: 0001-6209.
- AU Lu J; Rakhely G; Kovacs K L; Xiao C; Zhou P
- AN 2003044208 MEDLINE
- L61 ANSWER 11 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Identification of novel essential Escherichia coli genes conserved among pathogenic bacteria
- SO Journal of Molecular Microbiology and Biotechnology (2001), 3(3), 483-489 CODEN: JMMBFF; ISSN: 1464-1801
- AU Freiberg, Christoph; Wieland, Bernd; Spaltmann, Frank; Ehlert, Kerstin; Brotz, Heike; Labischinski, Harald
- AN 2001:348500 HCAPLUS
- DN 135:104920
- L61 ANSWER 12 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Phylogenetic analyses of two "archaeal" genes in Thermotoga maritima reveal multiple transfers between archaea and bacteria
- SO Molecular Biology and Evolution (2001), 18(3), 362-375 CODEN: MBEVEO; ISSN: 0737-4038
- AU Nesbo, Camilla L.; L'Haridon, Stephane; Stetter, Karl O.; Doolittle, W. Ford
- AN 2001:186845 HCAPLUS
- DN 135:283864
- L61 ANSWER 13 OF 72 MEDLINE on STN DUPLICATE 6
- TI Prokaryotic structural maintenance of chromosomes (SMC) proteins: distribution, phylogeny, and comparison with MukBs and additional prokaryotic and eukaryotic coiled-coil proteins.
- SO Gene, (2001 Oct 31) 278 (1-2) 253-64. Journal code: 7706761. ISSN: 0378-1119.
- AU Soppa J
- AN 2001654625 MEDLINE
- L61 ANSWER 14 OF 72 MEDLINE on STN DUPLICATE 7
- TI Expression in Escherichia coli of the thermostable inorganic pyrophosphatase from the Aquifex aeolicus and purification and characterization of the recombinant enzyme.
- SO Protein expression and purification, (2001 Nov) 23 (2) 242-8. Journal code: 9101496. ISSN: 1046-5928.
- AU Hoe H S; Kim H K; Kwon S T
- AN 2001642891 MEDLINE
- L61 ANSWER 15 OF 72 MEDLINE on STN DUPLICATE 8
- TI Molecular cloning and characterization of thermostable DNA ligase from Aquifex pyrophilus, a hyperthermophilic bacterium.
- SO Extremophiles: life under extreme conditions, (2001 Jun) 5 (3) 161-8. Journal code: 9706854. ISSN: 1431-0651.
- AU Lim J H; Choi J; Han S J; Kim S H; Hwang H Z; Jin D K; Ahn B Y; Han Y S
- AN 2002019598 MEDLINE
- L61 ANSWER 16 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN

```
Genome of Aquifex aeolicus
TI
     Methods in Enzymology (2001), 330 (Hyperthermophilic Enzymes, Part A),
SO
      158-169
      CODEN: MENZAU; ISSN: 0076-6879
     Swanson, Ronald V.
ΑU
AN
      2001:125818 HCAPLUS
DN
     135:314007
L61 ANSWER 17 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
ΤI
     Expression and characterization of the terminal heme synthetic enzymes
      from the hyperthermophile Aquifex aeolicus
     FEMS Microbiology Letters (2001), 202(1), 115-119
SO
     CODEN: FMLED7; ISSN: 0378-1097
     Wang, K.-F.; Dailey, T. A.; Dailey, H. A.
ΑU
AN
     2001:591698 HCAPLUS
DN
     136:50095
L61 ANSWER 18 OF 72
                          MEDLINE on STN
                                                              DUPLICATE 9
     Purification and properties of Aquifex aeolicus DNA polymerase expressed
ΤI
      in Escherichia coli.
     FEMS microbiology letters, (2001 Jul 10) 201 (1) 73-7.
SO
     Journal code: 7705721. ISSN: 0378-1097.
ΑU
     Chang J R; Choi J J; Kim H K; Kwon S T
ΑN
      2001390998
                      MEDLINE
     ANSWER 19 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
     Evolution of gene order conservation in prokaryotes
ΤI
SO
     GenomeBiology [online computer file] (2001), 2(6), No pp. given
      CODEN: GNBLFW; ISSN: 1465-6914
     URL: http://genomebiology.com/2001/2/6/research/0020
ΑU
     Tamames, Javier
     2002:227287 HCAPLUS
AN
DN
     137:213424
     ANSWER 20 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
     Nucleic acid probe-based diagnostic assays for prokaryotic and eukaryotic
TI
     organisms using gene ssrA and its tmRNA transcript as targets
SO
      PCT Int. Appl., 221 pp.
     CODEN: PIXXD2
IN
     Barry, Thomas Gerard; Smith, Terence James
     2000:824445 HCAPLUS
ΑN
DN
     134:13982
                          KIND DATE
     PATENT NO.
                                            APPLICATION NO.
                                                                         DATE
      TATENT NO. KIND DITE
                                                 -----
                                    20001123 WO 2000-IE66
                                                                          20000515
PΙ
     WO 2000070086 A1
     W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
     ANSWER 21 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
     Cloning and sequence of Aquifex pyrophilus
     superoxide dismutase gene, expression of the enzyme in
     Escherichia coli and its pharmaceutical applications
SO
     U.S., 17 pp.
     CODEN: USXXAM
IN
     Han, Ye Sun; Yu, Yeon Gyu; Kim, Sung Hou; Lim, Jae Hwan; Ryu, Jae Ryeon;
     Choi, In Geol
AN
     2000:157663 HCAPLUS
DN
     132:204860
     PATENT NO.
                           KIND
                                    DATE
                                                APPLICATION NO.
      -----
                           ____
```

ΡI	US 6033889	Α	20000307	US 1998-8303	19980116
	KR 183362	B1	19990401	KR 1997-1140	19970116

- L61 ANSWER 22 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Cyclic glucan synthesis with thermostable branching enzyme for use in food production
- SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

- IN Takada, Hiroki; Takabane, Takeshi; Kuriki, Takashi; Okada, Shigetaka
- AN 2000:817136 HCAPLUS
- DN 133:331188

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΤ	JP 2000316581	A2	20001121	JP 1999-130833	19990512

- L61 ANSWER 23 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Protein and cDNA sequences for a human ADP- ribosylglycohydrolase protein ARGHase, its expression and use
- SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 21 pp. CODEN: CNXXEV
- IN Li, Nenggan; Qian, Binzhi; Gao, Xin; Xiao, Huasheng; Chen, Zhu; Han, Zeguang
- AN 2001:174517 HCAPLUS
- DN 134:203430

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	CN 1264741	Α	20000830	CN 2000-111778	20000302

- L61 ANSWER 24 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Antibacterial agents that target lipid A biosynthesis in gram-negative bacteria: inhibition of diverse UDP-3-O-(R-3-hydroxymyristoyl)-N-acetylglucosamine deacetylases by substrate analogs containing zinc binding motifs
- SO Journal of Biological Chemistry (2000), 275(15), 11002-11009 CODEN: JBCHA3; ISSN: 0021-9258
- AU Jackman, Jane E.; Fierke, Carol A.; Tumey, L. Nathan; Pirrung, Michael; Uchiyama, Taketo; Tahir, S. Hasan; Hindsgaul, Ole; Raetz, Christian R. H.
- AN 2000:270240 HCAPLUS
- DN 133:27932
- L61 ANSWER 25 OF 72 MEDLINE on STN DUPLICATE 10
- TI A soxA gene, encoding a diheme cytochrome c, and a sox locus, essential for sulfur oxidation in a new sulfur lithotrophic bacterium.
- SO Journal of bacteriology, (2000 Aug) 182 (15) 4278-87. Journal code: 2985120R. ISSN: 0021-9193.
- AU Mukhopadhyaya P N; Deb C; Lahiri C; Roy P
- AN 2000396412 MEDLINE
- L61 ANSWER 26 OF 72 MEDLINE on STN DUPLICATE 11
- TI Functionality of purified sigma(N) (sigma(54)) and a NifA-like protein from the hyperthermophile Aquifex aeolicus.
- SO Journal of bacteriology, (2000 Mar) 182 (6) 1616-23. Journal code: 2985120R. ISSN: 0021-9193.
- AU Studholme D J; Wigneshwereraraj S R; Gallegos M T; Buck M
- AN 2000158878 MEDLINE
- L61 ANSWER 27 OF 72 MEDLINE on STN DUPLICATE 12
- TI Cloning and characterization of thermostable endoglucanase (Cel8Y) from the hyperthermophilic Aquifex aeolicus VF5.
- SO Biochemical and biophysical research communications, (2000 Dec 20) 279 (2) 420-6.
 - Journal code: 0372516. ISSN: 0006-291X.
- AU Kim J O; Park S R; Lim W J; Ryu S K; Kim M K; An C L; Cho S J; Park Y W; Kim J H; Yun H D

- L61 ANSWER 28 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 13
- TI Phylogenetic depth of the bacterial genera Aquifex and Thermotoga inferred from analysis of ribosomal protein, elongation factor, and RNA polymerase subunit sequences.
- SO Journal of Molecular Evolution, (April, 2000) Vol. 50, No. 4, pp. 366-380. print.

 CODEN: JMEVAU. ISSN: 0022-2844.
- AU Bocchetta, Maurizio; Gribaldo, Simonetta; Sanangelantoni, Annamaria; Cammarano, Piero [Reprint author]
- AN 2000:241251 BIOSIS
- L61 ANSWER 29 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Hyperthemostable AONS: The first committed enzyme in E. coli biotin biosynthesis has a tropical relative.
- SO Biochemical Society Transactions, (October, 2000) Vol. 28, No. 5, pp. A316. print.

 Meeting Info.: 18th International Congress of Biochemistry and Molecular Biology. Birmingham, UK. July 16-20, 2000. International Union of Biochemistry and Molecular Biology; Federation of European Biochemical Societies; Biochemical Society.

 CODEN: BCSTB5. ISSN: 0300-5127.
- AU Mullan, Lisa J. [Reprint author]; Webster, Scott P. [Reprint author]; Alexeev, Dmitriy G. [Reprint author]; Baxter, Robert L. [Reprint author]
- AN 2001:102325 BIOSIS
- L61 ANSWER 30 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Polypurine.polypyrimidine sequences in complete bacterial genomes: preference for polypurines in protein-coding regions
- SO Gene (2000), 242(1-2), 275-283 CODEN: GENED6; ISSN: 0378-1119
- AU Raghavan, Sowmya; Hariharan, Ramesh; Brahmachari, Samir K.
- AN 2000:154073 HCAPLUS
- DN 132:304159
- L61 ANSWER 31 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Extremely thermostable elongation factor G from Aquifex aeolicus: Cloning, expression, purification, and characterization in a heterologous translation system.
- SO Protein Expression and Purification, (April, 2000) Vol. 18, No. 3, pp. 257-261. print.

 CODEN: PEXPEJ. ISSN: 1046-5928.
- AU Martemyanov, Kirill A.; Liljas, Anders; Gudkov, Anatoly T. [Reprint author]
- AN 2000:233620 BIOSIS
- L61 ANSWER 32 OF 72 LIFESCI COPYRIGHT 2005 CSA on STN DUPLICATE 14
- TI Reverse gyrase from hyperthermophiles: Probable transfer of a thermoadaptation trait from Archaea to Bacteria
- SO Trends in Genetics [Trends Genet.], (20000400) vol. 16, no. 4, pp. 152-156.
 ISSN: 0168-9525.
- AU Forterre, P.; De La Tour, C.B.; Philippe, H.; Duguet, M.
- AN 2000:76087 LIFESCI
- L61 ANSWER 33 OF 72 MEDLINE on STN DUPLICATE 15
- TI The alternative sigma factor sigma(28) of the extreme thermophile Aquifex aeolicus restores motility to an Escherichia coli fliA mutant.
- SO FEMS microbiology letters, (2000 Oct 1) 191 (1) 103-7. Journal code: 7705721. ISSN: 0378-1097.

- Studholme D J; Buck M ΑU
- 2001045810 MEDLINE AN
- L61 ANSWER 34 OF 72 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on DUPLICATE 16
- Characterization of a solvent resistant and thermostable aminopeptidase ΤI from the hyperthermophillic bacterium, Aquifex aeolicus
- ENZYME AND MICROBIAL TECHNOLOGY, (JUL 2000) Vol. 27, No. 1-2, pp. 83-88. Publisher: ELSEVIER SCIENCE INC, 655 AVENUE OF THE AMERICAS, NEW YORK, NY SO 10010.

ISSN: 0141-0229.

- Khan A R; Nirasawa S; Kaneko S; Shimonishi T; Hayashi K (Reprint) ΑU
- 2000:506413 SCISEARCH AN
- L61 ANSWER 35 OF 72 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 17
- Molecular cloning of an extremely thermostable alanine racemase from ΤI Aquifex pyrophilus and enzymatic characterization of the expressed protein
- SO JOURNAL OF BIOCHEMISTRY AND MOLECULAR BIOLOGY, (31 JAN 2000) Vol. 33, No. 1, pp. 82-88. Publisher: SPRINGER-VERLAG SINGAPORE PTE LTD, #04-01 CENCON I, 1 TANNERY

RD. SINGAPORE 347719, SINGAPORE.

ISSN: 1225-8687.

- Kim S S; Yu Y G (Reprint) ΑU
- 2000:90575 SCISEARCH AN
- ANSWER 36 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- ΤI Genome evolution. Gene fusion versus gene fission
- SO Trends in Genetics (2000), 16(1), 9-11 CODEN: TRGEE2; ISSN: 0168-9525
- ΑU Snel, Berend; Bork, Peer; Huynen, Martijn
- 2000:55022 HCAPLUS AN
- DN 132:190460
- ANSWER 37 OF 72 MEDLINE on STN **DUPLICATE 18** L61
- The biology of enhancer-dependent transcriptional regulation in bacteria: TI insights from genome sequences.
- FEMS microbiology letters, (2000 May 1) 186 (1) 1-9. Ref: 25 SO Journal code: 7705721. ISSN: 0378-1097.
- ΑU Studholme D J; Buck M
- 2000395687 MEDLINE AN
- L61 ANSWER 38 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Interkingdom gene fusions
- GenomeBiology [online computer file] (2000), 1(6), No pp. given SO CODEN: GNBLFW; ISSN: 1465-6914 URL: http://www.genomebiology.com/retriever.asp?url=/2000/1/6/research/001
- Wolf, Yuri I.; Kondrashov, Alexey S.; Koonin, Eugene V. AU
- 2001:182692 HCAPLUS AN
- DN 136:15880
- ANSWER 39 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN L61
- Sequences of members of the novel bacterial yihA gene family, and uses thereof in screening for novel broad spectrum antibiotics
- SO PCT Int. Appl., 42 pp. CODEN: PIXXD2
- Arigoni, Fabrizio; Edgerton, Michael David; Loferer, Hannes; Peitsch, ΙN Manuel C.
- 1999:691219 HCAPLUS AN
- DN 131:333017

•	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	WO 9954474	A2	19991028	WO 1999-EP2640	19990420

```
20000504
     WO 9954474
                           Α3
         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
              DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
              JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
              MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
              TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
              MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9937090
                           A1
                                  19991108
                                             AU 1999-37090
                                                                       19990420
     ANSWER 40 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
     Sequences of members of the novel bacterial ycfB gene family, and uses
TI
     thereof in screening for novel broad spectrum antibiotics
SO
     PCT Int. Appl., 56 pp.
     CODEN: PIXXD2
     Arigoni, Fabrizio; Edgerton, Michael David; Loferer, Hannes; Peitsch,
ΙN
     Manuel C.
     1999:691207 HCAPLUS
AN
     131:333015
DN
     PATENT NO.
                          KIND
                                  DATE
                                              APPLICATION NO.
                                                                       DATE
     ------
                          ----
                                  -----
                                              .-----
                                                                       -----
     WO 9954462
                          A2
                                  19991028
                                             WO 1999-EP2638
                                                                       19990420
PΙ
     WO 9954462
                          A3
                                  20000622
         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
              DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
              MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
              TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
              MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
              ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
              CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9937089
                           A1
                                  19991108
                                             AU 1999-37089
                                                                       19990420
     ANSWER 41 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
     Structure-specific tRNA-binding protein from the extreme thermophile
ΤI
     Aquifex aeolicus
SO
     EMBO Journal (1999), 18(12), 3475-3483
     CODEN: EMJODG; ISSN: 0261-4189
     Morales, Arturo J.; Swairjo, Manal A.; Schimmel, Paul
ΑU
ΑN
     1999:433529 HCAPLUS
     131:196766
DN
L61
     ANSWER 42 OF 72
                          MEDLINE on STN
                                                           DUPLICATE 19
ΤI
     Sequences and evolutionary analyses of eukaryotic-type protein kinases
     from Streptomyces coelicolor A3(2).
SO
     Microbiology (Reading, England), (1999 Dec) 145 ( Pt 12) 3343-52.
     Journal code: 9430468. ISSN: 1350-0872.
ΑU
     Ogawara H; Aoyagi N; Watanabe M; Urabe H
     2000090459
AN
                    MEDLINE
     ANSWER 43 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
     Conservation of xer site-specific recombination genes in bacteria
ΤI
SO
     Molecular Microbiology (1999), 34(5), 1146-1148
     CODEN: MOMIEE; ISSN: 0950-382X
ΑU
     Recchia, Gavin D.; Sherratt, David J.
ΑN
     2000:26678 HCAPLUS
DN
     132:176460
     ANSWER 44 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
     Evolutionary relationships among photosynthetic prokaryotes
TI
```

(Heliobacterium chlorum, Chloroflexus aurantiacus, cyanobacteria,

Chlorobium tepidum and proteobacteria): implications regarding the origin of photosynthesis

- SO Molecular Microbiology (1999), 32(5), 893-906 CODEN: MOMIEE; ISSN: 0950-382X
- AU Gupta, Radhey S.; Mukhtar, Tariq; Singh, Bhag
- AN 1999:380511 HCAPLUS
- DN 131:182139
- L61 ANSWER 45 OF 72 MEDLINE on STN . DUPLICATE 20
- TI A [2Fe-2S] protein from the hyperthermophilic bacterium Aquifex aeolicus.
- SO Biochemical and biophysical research communications, (1999 Aug 11) 261 (3) 885-9.
 - Journal code: 0372516. ISSN: 0006-291X.
- AU Chatelet C; Gaillard J; Petillot Y; Louwagie M; Meyer J
- AN 1999373173 MEDLINE
- L61 ANSWER 46 OF 72 MEDLINE on STN DUPLICATE 21
- TI Extremely thermostable serine-type protease from Aquifex pyrophilus.

 Molecular cloning, expression, and characterization.
- SO Journal of biological chemistry, (1999 Jan 8) 274 (2) 881-8. Journal code: 2985121R. ISSN: 0021-9258.
- AU Choi I G; Bang W G; Kim S H; Yu Y G
- AN 1999091626 MEDLINE
- L61 ANSWER 47 OF 72 MEDLINE ON STN DUPLICATE 22
- TI A new member of the endonuclease III family of DNA repair enzymes that removes methylated purines from DNA.
- SO Current biology: CB, (1999 Jun 17) 9 (12) 653-6. Journal code: 9107782. ISSN: 0960-9822.
- AU Begley T J; Haas B J; Noel J; Shekhtman A; Williams W A; Cunningham R P
- AN 1999307502 MEDLINE
- L61 ANSWER 48 OF 72 MEDLINE on STN DUPLICATE 23
- TI RNA polymerase of Aquifex pyrophilus: implications for the evolution of the bacterial rpoBC operon and extremely thermophilic bacteria.
- SO Journal of molecular evolution, (1999 May) 48 (5) 528-41. Journal code: 0360051. ISSN: 0022-2844.
- AU Klenk H P; Meier T D; Durovic P; Schwass V; Lottspeich F; Dennis P P; Zillig W
- AN 1999214260 MEDLINE
- L61 ANSWER 49 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 24
- TI Discontinuous occurrence of the hsp70 (dnaK) gene among Archaea and sequence features of HSP70 suggest a novel outlook on phylogenies inferred from this protein.
- SO Journal of Bacteriology, (Jan., 1999) Vol. 181, No. 2, pp. 434-443. print. CODEN: JOBAAY. ISSN: 0021-9193.
- AU Gribaldo, Simonetta; Lumia, Valentina; Creti, Roberta; Conway De Macario, Everly; Sanangelantoni, Annamaria; Cammarano, Piero [Reprint author]
- AN 1999:98324 BIOSIS
- L61 ANSWER 50 OF 72 MEDLINE on STN DUPLICATE 25
- Functional and biochemical characterization of a recombinant 3-Deoxy-D-manno-octulosonic acid 8-phosphate synthase from the hyperthermophilic bacterium Aquifex aeolicus.
- SO Biochemical and biophysical research communications, (1999 Sep 24) 263 (2) 346-51.
 - Journal code: 0372516. ISSN: 0006-291X.
- AU Duewel H S; Sheflyan G Y; Woodard R W
- AN 1999423466 MEDLINE
- L61 ANSWER 51 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Distribution of species specific gene family in microorganisms

- SO Genome Informatics Series (1999), 10, 326-327
- CODEN: GINSE9; ISSN: 0919-9454
- AU Ara, Takeshi; Suzuki, Kenji; Matuda, Hideo; Mori, Hirotada
- AN 2000:80333 HCAPLUS
- DN 133:84950
- L61 ANSWER 52 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Archaeal and bacterial hyperthermophiles: horizontal gene exchange or common ancestry? Comments
- SO Trends in Genétics (1999), 15(8), 298-299 CODEN: TRGEE2; ISSN: 0168-9525
- AU Kyrpides, Nikos C.; Olsen, Gary J.
- AN 1999:503535 HCAPLUS
- DN 131:269434
- L61 ANSWER 53 OF 72 MEDLINE on STN DUPLICATE 26
- TI Molecular cloning, expression, and characterization of a thermostable glutamate racemase from a hyperthermophilic bacterium, Aquifex pyrophilus.
- SO Extremophiles: life under extreme conditions, (1999 Aug) 3 (3) 175-83. Journal code: 9706854. ISSN: 1431-0651.
- AU Kim S S; Choi I G; Kim S H; Yu Y G
- AN 1999411974 MEDLINE
- L61 ANSWER 54 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Studies of codon usage and tRNA genes of 18 unicellular organisms and quantification of Bacillus subtilis tRNAs: gene expression level and species-specific diversity of codon usage based on multivariate analysis
- SO Gene (1999), 238(1), 143-155 CODEN: GENED6; ISSN: 0378-1119
- AU Kanaya, Shigehiko; Yamada, Yuko; Kudo, Yoshihiro; Ikemura, Toshimichi
- AN 1999:716490 HCAPLUS
- DN 132:19581
- L61 ANSWER 55 OF 72 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 27
- TI A sequencer of thirty bases that is highly repetitive in archaebacterial genomes
- SO PROCEEDINGS OF THE JAPAN ACADEMY SERIES B-PHYSICAL AND BIOLOGICAL SCIENCES, (JAN 1999) Vol. 75, No. 1, pp. 16-21.
 Publisher: JAPAN ACAD, 7-32 UENO PARK, TOKYO 110, JAPAN.
 ISSN: 0386-2208.
- AU Suckow J M; Suzuki M (Reprint)
- AN 1999:169952 SCISEARCH
- L61 ANSWER 56 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Thermostable mutL genes and proteins and their uses in nucleic acid amplification and hybridization
- SO PCT Int. Appl., 148 pp. CODEN: PIXXD2
- IN Wetmur, James G.
- AN 1998:65999 HCAPLUS
- DN 128:150360
- PATENT NO. KIND DATE APPLICATION NO. DATE _____ ____ _ _ _ _ _ _ ----------A1 PI. WO 9801562 19980115 WO 1997-US11567 19970701 W: AU, CA, IL, JP RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE US 6294325 B1 20010925 US 1996-676444 . 19960705 AU 9736486 A1 19980202 AU 1997-36486
- L61 ANSWER 57 OF 72 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
- TI Novel Aquifex pyrophilus superoxide dismutase polynucleotides and polypeptides, used for the treatment of inflammation, autoimmune disorders, and chromosome lesions.

- PI KR 98065913 A 19981015 (199950)* 1 C12N015-53 US 6033889 A 20000307 (200022)B 17 C12N009-02 KR 183362 B1 19990401 (200113) C12N015-53
- IN CHOE, I; HAN, Y; LIM, J; RYU, J; YOO, Y; CHOI, I G; HAN, Y S; KIM, S H; LIM, J H; RYOO, J R; YOO, Y G; RYU, J R; YU, Y G
- L61 ANSWER 58 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Aquifex pyrophilus
- SO Bacterial Genomes (1998), 605-607. Editor(s): De Bruijn, Frans J.; Lupski, James R.; Weinstock, George M. Publisher: Chapman & Hall, New York, N. Y. CODEN: 65KVAK
- AU Schmitt, Rudiger
- AN 1997:778269 HCAPLUS
- DN 128:84986
- L61 ANSWER 59 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI The complete genome of the hyperthermophilic bacterium Aquifex aeolicus
- SO Nature (London) (1998), 392(6674), 353-358 CODEN: NATUAS; ISSN: 0028-0836
- AU Deckert, Gerard; Warren, Patrick V.; Gaasterland, Terry; Young, William G.; Lenox, Anna L.; Graham, David E.; Overbeek, Ross; Snead, Marjory A.; Keller, Martin; Aujay, Monette; Huber, Robert; Feldman, Robert A.; Short, Jay M.; Olsen, Gary J.; Swanson, Ronald V.
- AN 1998:229920 HCAPLUS
- DN 128:253667
- L61 ANSWER 60 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Sequence and phylogenetic position of a class II aldolase gene in the amitochondriate protist, Giardia lamblia
- SO Gene (1998), 222(2), 163-168 CODEN: GENED6; ISSN: 0378-1119
- AU Henze, Katrin; Morrison, Hilary G.; Sogin, Mitchell L.; Muller, Miklos
- AN 1998:809228 HCAPLUS
- DN 130:163804
- L61 ANSWER 61 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Genomic analysis of the genes encoding ribosomal proteins in eight eubacterial species and Saccharomyces cerevisiae
- SO Genome Informatics Series (1998), 9, 3-12 CODEN: GINSE9; ISSN: 0919-9454
- AU Fujita, Katsutoshi; Baba, Tomoya; Isono, Katsumi
- AN 1999:175410 HCAPLUS
- DN 131:68899
- L61 ANSWER 62 OF 72 MEDLINE on STN DUPLICATE 28
- TI Cloning and expression of superoxide dismutase from Aquifex pyrophilus, a hyperthermophilic bacterium.
- SO FEBS letters, (1997 Apr 7) 406 (1-2) 142-6. Journal code: 0155157. ISSN: 0014-5793.
- AU Lim J H; Yu Y G; Choi I G; Ryu J R; Ahn B Y; Kim S H; Han Y S
- AN 97263490 MEDLINE
- L61 ANSWER 63 OF 72 MEDLINE on STN DUPLICATE 29
- TI Random sequence analysis of genomic DNA of a hyperthermophile:
 Aquifex pyrophilus.
- SO Extremophiles: life under extreme conditions, (1997 Aug) 1 (3) 125-34. Journal code: 9706854. ISSN: 1431-0651.
- AU Choi I G; Kim S S; Ryu J R; Han Y S; Bang W G; Kim S H; Yu Y G
- AN 1998343912 MEDLINE
- L61 ANSWER 64 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Cloning and expression of thermostable mutS genes and proteins from hyperthermophilic bacteria and their applications to improve fidelity in

```
DNA amplification techniques
     PCT Int. Appl., 92 pp.
SO
     CODEN: PIXXD2
     Wetmur, James G.
IN
     1997:85214 HCAPLUS
AN
     126:85652
DN
     PATENT NO.
                        KIND
                              DATE
                                          APPLICATION NO.
                                                                  DATE
                         ----
                                -----
                         A1
PΙ
     WO 9639525
                                19961212
                                           WO 1996-US8677
                                                                   19960604
        W: CA, IL, JP
        RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
                         Α
                                19990302 US 1995-468558
                                                                  19950606
     US 5877280
                         AA
     CA 2221451
                                19961212
                                            CA 1996-2221451
                                                                   19960604
                                            EP 1996-919058
     EP 832240
                         Α1
                                19980401
                                                                   19960604
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
     JP 11511010
                         T2
                                19990928
                                           JP 1996-501189
                                                                   19960604
L61 ANSWER 65 OF 72
                        MEDLINE on STN
                                                        DUPLICATE 30
     Sensitivity of ribosomes of the hyperthermophilic bacterium Aquifex
TT
     pyrophilus to aminoglycoside antibiotics.
     Journal of bacteriology, (1996 Mar) 178 (6) 1762-5.
SO
     Journal code: 2985120R. ISSN: 0021-9193.
     Bocchetta M; Huber R; Cammarano P
AU
AN
     96198182
                 MEDLINE
    ANSWER 66 OF 72
                        MEDLINE on STN
                                                        DUPLICATE 31
L61
     Flagellar structure and hyperthermophily: analysis of a single flagellin
TI
     gene and its product in Aquifex pyrophilus.
SO
     Journal of bacteriology, (1995 Nov) 177 (22) 6630-7.
     Journal code: 2985120R. ISSN: 0021-9193.
     Behammer W; Shao Z; Mages W; Rachel R; Stetter K O; Schmitt R
AU
AN
     96062250
                 MEDLINE
    ANSWER 67 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
TI
     Root of the universal tree of life based on ancient aminoacyl-tRNA
     synthetase gene duplications
SO
     Proceedings of the National Academy of Sciences of the United States of
     America (1995), 92(7), 2441-5
     CODEN: PNASA6; ISSN: 0027-8424
ΑIJ
     Brown, James R.; Doolittle, W. Ford
     1995:479772 HCAPLUS
ΑN
     123:191805
DN
L61 ANSWER 68 OF 72
                        MEDLINE on STN
                                                        DUPLICATE 32
TI
     Arrangement and nucleotide sequence of the gene (fus) encoding elongation
     factor G (EF-G) from the hyperthermophilic bacterium Aquifex pyrophilus:
     phylogenetic depth of hyperthermophilic bacteria inferred from analysis of
     the EF-G/fus sequences.
SO
     Journal of molecular evolution, (1995 Dec) 41 (6) 803-12.
     Journal code: 0360051. ISSN: 0022-2844.
     Bocchetta M; Ceccarelli E; Creti R; Sanangelantoni A M; Tiboni O;
AU
     Cammarano P
     96139013
                 MEDLINE
AN
    ANSWER 69 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
TI
     Cloning, sequencing, and expression of RecA proteins from three distantly
     related thermophilic eubacteria
SO
     Journal of Biological Chemistry (1994), 269(41), 25928-35
     CODEN: JBCHA3; ISSN: 0021-9258
     Wetmur, James G.; Wong, Daphne M.; Ortiz, Benjamin; Tong, Jie; Reichert,
ΑU
```

Frederick; Gelfand, David H.

1994:624939 HCAPLUS

121:224939

AN DN L61 ANSWER 70 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN

TI A physical map of the hyperthermophilic bacterium Aquifex pyrophilus chromosome

SO Journal of Bacteriology (1994), 176(21), 6776-80 CODEN: JOBAAY; ISSN: 0021-9193

AU Shao, Zhixin; Mages, Wolfgang; Schmitt, Ruediger

AN 1994:694242 HCAPLUS

DN 121:294242

L61 ANSWER 71 OF 72 MEDLINE on STN DUPLICATE 33

TI Phylogenetic analysis of the hyperthermophilic pink filament community in Octopus Spring, Yellowstone National Park.

SO Applied and environmental microbiology, (1994 Jun) 60 (6) 2113-9. Journal code: 7605801. ISSN: 0099-2240.

AU Reysenbach A L; Wickham G S; Pace N R

AN 94304181 MEDLINE

L61 ANSWER 72 OF 72 MEDLINE on STN DUPLICATE 34

TI A phylogenetic analysis of Aquifex pyrophilus.

SO Systematic and applied microbiology, (1992 Aug) 15 (3) 352-6.

Journal code: 8306133. ISSN: 0723-2020.

(Investigators: Woese C R, U IL, Urbana, Dept Microbiology) Report No.: NASA-00016510.

AU Burggraf S; Olsen G J; Stetter K O; Woese C R

AN 2001658644 MEDLINE

=> log y COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 104.41 104.62

STN INTERNATIONAL LOGOFF AT 15:49:47 ON 21 APR 2005